Notice of Allowability	Application No.	Applicant(s)	
	09/687,094	CHAVEZ ET AL.	
	Examiner	Art Unit	
	Cam Y T Truong	2162	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *8/24/2004*.

2. ☒ The allowed claim(s) is/are *1-16*.

3. ☒ The drawings filed on *28 February 2002* are accepted by the Examiner.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☐ All b) ☐ Some* c) ☐ None of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

JEAN M. CORRIELUS
PRIMARY EXAMINER

DETAILED ACTION

1. Applicant has amended claims 1-16 in the amendment filed 6/29/2004. Claims 1-16 are pending in this Office Action.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney Rudolf O.Siegesmund. Reg. No. 37,720 on 1/20/2004.

In the claims:

Please replace original claims 1, 2, 4-9, 12, 15 with amended claims 1, 2, 4-9, 12 15 and cancel claims 10 and 14.

1. (Currently amended) A programmable apparatus comprising:

a first computer having a first computer memory containing a plurality of directory limits for the operating system of a second computer in a back up file;

a sender batch submission application interface in the first computer memory ;

a network connecting the first computer and the second computer;

the second computer having a second computer memory;

a receiver batch submission application interface in the second computer memory that only accepts a buffer and count;

the first computer being directed by the sender batch submission application interface to examine each record in the plurality of directory limits to determine whether a flag is not set or whether a path is not covered;

to identify a record where a flag is not set or a path is not covered as an invalid record and any other record as valid record;

to place the valid records in a batch buffer and the invalid records in a failed buffer; and

to determine the number of records in the batch buffer and to transmit the buffer and count to the second computer; and

the second computer, being directed by the receiver batch submission application interface, receives the buffer and count and performs an operation on each record in the buffer and count to add a directory, set a directory limit, or to get information if required to add a directory or to set a directory limit;

wherein said sender batch submission application interface directs said first computer to determine a total count of records in the file, to determine a total number of invalid records, and to determine a number by dividing the total number of invalid records by the total count of records in the file, and if the number is less than or equal to a predetermined number, then said sender batch submission application interface directs said computer to send the buffer and count;

whereby transmission of data over the network when backing up and restoring directory limits in the operating system is reduced.

2. (Currently amended) The programmable apparatus of claim 1 where if the number is greater than the predetermined number, said sender batch submission application

interface directs said first computer to display a report that an error threshold has been exceeded.

4. (Currently amended) The programmable apparatus of claim 1 wherein said receiver batch submission interface directs said second computer to determine whether any records failed to be operated on and, responsive to a determination that there were records that failed to be operated on, to return the records that failed to be operated on to the first computer.

5. (Currently amended) The buffer and count of claim 1 wherein the count of records is equal to the total count of records in the backup file minus the number of invalid records.

6. (Currently amended) A computer readable memory for causing a first computer, having a file containing a plurality of records, to validate the plurality of records for transmission to a second computer comprising:

a computer readable storage medium;

an sender batch submission application interface stored in said storage medium;

the storage medium so configured by said sender batch submission application interface, causes the computer to examine each record in a plurality of directory limits and to determine whether each record is a valid record or an invalid record;

to place the valid records in a batch buffer and the invalid records in a failed buffer ;

to determine the number of records in the batch buffer and to transmit a buffer and count to the second computer;

wherein a record is invalid if a flag is not set or a path is not covered, and any other record is valid; and

wherein the buffer and count is transmitted to the second computer so that a receiver batch submission application interface in a memory of the second computer can add a directory, set a directory limit or and get information in order to add a directory or to set a directory limit;

wherein said sender batch submission application interface directs said first computer to determine a total count of records in the file, to determine a total number of invalid records, and to determine a number by dividing the total number of invalid records by the total count of records in the file, and if the number is less than or equal to a predetermined number, then said sender batch submission application interface directs said computer to send the buffer and count;

whereby transmission of data over the network when backing up and restoring directory limits in the operating system is reduced.

7. (Currently amended) The sender batch submission application interface of claim 6, and where the number is greater than the predetermined number, said sender batch submission application interface directs said computer to display a report that an error threshold has been exceeded.

8. (Currently amended) The buffer and count of claim 6 wherein the count of records is equal to the total number of records in the file containing a plurality of records minus the number of invalid records.

9. (Currently amended) A computer implemented process to accomplish pre-submission validation and batch submission of directory limits from a backup file comprising:

using a sender batch submission application interface in the memory of a first computer, performing the following steps;

initializing a total count of records in a file and the total number of invalid records in the file;

retrieving a record;

adding one to the total count of records in the file;

examining the record to determine whether a flag is not set or a path is not covered;

identifying a record where a flag is not set or a path is not covered as an invalid record and any other record as a valid record;

responsive to determining that there is a validation error in the record, adding one to the total number of invalid records in the file and storing the record in a failed buffer;

responsive to determining that there is no validation error in the record;

storing the record in a batch buffer;

determining whether the last record has been retrieved;

responsive to a determination that the last record has been retrieved,

determining whether the total number of invalid records in the file is greater than zero;

responsive to a determination that the total number of invalid records in the file is greater than zero, sending a buffer and count;

using a receiver batch submission application interface in the memory of a second computer, performing the following steps:

receiving the buffer and count;

retrieving a record;

determining whether the last record has been retrieved;

operating on the record to add a directory, set a directory limit or get information in order to add a directory or to set a directory limit and determining whether the operation failed;

responsive to a determination that the operation failed, generating an error record;

responsive to determining that the last record has been retrieved, determining whether there have been any failures; and

responsive to a determination that there have been failures, returning the error records;

whereby transmission of data over the network when backing up and restoring directory limits in the operating system is reduced.

12. (Currently amended) A method for reducing remote application interface network traffic and increasing application interface performance in a network having a first computer and a second computer comprising:

validating a plurality of records in a back up file, comprising a plurality of directory limits for the operating system of a second computer, prior to submission in the first computer by examining each of the plurality of records to determine whether a flag is not set or a path is not covered;

identifying a record where a flag is not set or a path is not covered as an invalid record and any other record as a valid record;

storing said records in buffer and count storing an invalid record in a failed buffer and storing a valid record in a batch buffer; and

calculating a count of records equal to the count of total records read in the validating records prior to submission step minus the number of invalid records;

transmitting said buffer and count to said second computer;

receiving said buffer and count in said second computer; and

operating on said records in said second computer to add a directory, set a directory limit or get information in order to add a directory or to set a directory limit;
whereby transmission of data over the network when backing up and restoring directory limits in the operating system is reduced.

15. (Currently amended) The method of claim 12 wherein the sending step further comprises the steps of:
responsive to a determination that the last record has been retrieved, determining whether the total number of invalid records in the file is greater than zero;
responsive to a determination that the total number of invalid records in the file is greater than zero, transmitting the buffer and count.

Allowable Subject Matter

3. Claims 1-9, 11-13 and 15-16 are allowed.

The prior art of record, alone or in combination, does not teach or fairly suggest the combination of steps as recited in independent claim 1 and 6, wherein "wherein the buffer and count is transmitted to the second computer so that a receiver batch submission application interface in a memory of the second computer can add a directory, set a directory limit or and get information in order to add a directory or to set a directory limit; wherein said sender batch submission application interface directs said first computer to determine a total count of records in the file, to determine a total number of invalid records, and to determine a number by dividing the total number of invalid records by the total count of records in the file, and if the number is less than or

equal to a predetermined number, then said sender batch submission application interface directs said computer to send the buffer and count";

The prior art of record, alone or in combination, does not teach or fairly suggest the combination of steps as recited in independent claim 12, wherein "validating a plurality of records in a back up file, comprising a plurality of directory limits for the operating system of a second computer, prior to submission in the first computer by examining each of the plurality of records to determine whether a flag is not set or a path is not covered; calculating a count of records equal to the count of total records read in the validating records prior to submission step minus the number of invalid records"; and

The prior art of record, alone or in combination, does not teach or fairly suggest the combination of steps as recited in independent claim 9, wherein "responsive to a determination that the last record has been retrieved, determining whether the total number of invalid records in the file is greater than zero; responsive to a determination that the total number of invalid records in the file is greater than zero, sending a buffer and count; operating on the record to add a directory, set a directory limit or get information in order to add a directory or to set a directory limit and determining whether the operation failed

The dependent claims, bring definite, further limiting, and fully enabled by the specification are also allowed.

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cam Y T Truong whose telephone number is (571) 272-4042. The examiner can normally be reached on Monday to Firday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Cam-Y Truong
1/21/2005

JEANNE CORRIELUS
PRIMARY EXAMINER